

L 3160-66 EWT(1)/FS(-) DD 10-1965
ACCESSION NR: AP5010354

UR/0205/65/005/002/0285/0286

16

B

AUTHOR: Zherebchenko, P. G.

TITLE: Effect of indolylalkylamines and some other substances on tolerance of mice to lowered barometric pressure ✓

SOURCE: Radiobiologiya, v. 5, no. 2, 1965, 285-286

TOPIC TAGS: animal, mouse, hypoxia, sensitivity increase, low pressure chamber, radioprotector, indolylalkylamine, mercaptoalkylamine, aminoethylisothiuron

ABSTRACT: The effect of indolylalkylamine and mercaptoalkylamine radioprotectors on animal sensitivity to hypoxia was investigated in groups of white male mice weighing 16-17 g. Experimental groups of animals were administered the following radioprotectors intraperitoneally: tryptamine chlorhydrate, 6-methoxytryptamine chlorhydrate, 5-oxytryptophane, aminoethylisothiuron (AET), and mercamine hydrobromide. Control animals were administered a physiological solution in the same volume (2 ml). Five minutes later the animals were placed in a low pressure chamber, and they "ascended" to an altitude of 9,000 m at a steady rate of 2 km/min. The animals were kept at this altitude for 30 min and then "descended" at the same rate. Radioprotector effect was determined by survival of

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L 1696-66 EMA(k)/FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EMA(n)-2/EMR(h) SCTB/IJP(c) RG
ACCESSION NR: AP5022729 DR/0181/65/007/009/2816/2820

AUTHOR: Zhelnov, B. L., Kazantsev, A. P., Smirnov, V. S.

TITLE: Stimulated emission of a traveling-wave laser

SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2816-2820

TOPIC TAGS: laser, laser emission, stimulated emission, traveling wave laser

ABSTRACT: The generation of a traveling-wave laser is studied theoretically near the threshold for the case of high- and low-Q resonators. It is shown that three types of stationary generation can exist: 1) a highly unstable standing-wave, 2) a slightly unstable, slow traveling wave, and 3) a highly stable traveling wave of the type $\exp i(\omega t - kx)$. Under certain energy conditions, the second type can also become stable. Orig. art. has: 23 formulas. [YK]

ASSOCIATION Institut fiziki poluprovodnikov SO AN SSSR, Novosibirsk (Semiconductor Physics Institute, SO AN SSSR)

SUBMITTED: 30Jan65
NO REF Sov: 003

ENCL: 00
OTHER: 005

SUB CODE: EC
ATD PRESS: 4093

Card 1/1 *mth*

L 3160-66

ACCESSION NR: AP5010354

animals. Results show that both the indolylalkylamine and mercaptoalkylamine radioprotectors increased animal sensitivity to hypoxia in varying degrees, with tryptamine action most markedly expressed. Mercamine and AFT also considerably increased animal sensitivity to hypoxia, but less than α -acetyltryptamine despite the fact that the latter is a relatively ineffective radioprotector. Thus, in these experiments lowered barometric pressure contributed to the hypoxia induced by the radioprotectors which affected hypoxia sensitivity increases differently.
Orig. art. has: 1 table.

ASSOCIATION: None.

SUBMITTED: 18May63

NR REF Sov: 006

ENCL: 00

SUB CODE: LB

OTHER: 003

Card 2/2 back

ZHEREBCHENKO, P.G.

Effect of indolyl alkylamines and some other substances on
the ability of mice to withstand reduced barometric pressure.
Radiobiologija 5 no.2:285-286 '65.

(MIRA 18:12)

BUZNIKOV, G.A.; ZHEREBCHENKO, P.G.; CHUDAKOVA, I.V.

Effect of various indolylalkyl amines on the motor cells of
mollusk embryos and the vessels of rabbit ear. Biul.eksp.biol.
i med. 59 no.5:59-63 '65. (MIRA 18:11)

1. Laboratoriya chshchey i sravnitel'noy fiziologii (sav.
T.M.Turpayev) Instituta morfologii AN SSSR, Moskva. Submitted
October 4, 1963.

GRAYEVSKIY, E.Ya.; ZHEREBCHENKO, P.C.; KONSTANTINOVA, M.M.; SOKOLOVA, O.M.;
SHEVCHENKO, A.N.

Relation between the radioprotective activity of indololalkylamines
and tissue hypoxia and the role of vascular changes in its origin.
Radiobiologija 4 no.2:197-202 '64. (MIRA 18;3)

KRASNYKH, I.G.; ZHEREBCHENKO, P.G.; MURASHOVA, V.S.; SUVOROV, N.N.;
SOROKINA, N.P.; SHASHKOV, V.S.

Radioprotective action of 5-methoxytryptamine and other alkoxymethyltryptamines. Radiobiologia 2 no.1:156-160 Ja '62
(MIRA 18:1)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720002-8

ZHEREBCHENKO, P.G. & KRASNYKH, I.G.

Role of oxidative deamination in the mechanism of the radio-
protective action of indolylalkylamines. Radiobiologija 4
no.2:239-243 '64. (MIRA 18:3)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720002-8"

AYRAPETYAN, G.M., ZHEREBCHENKO, P.G.

Some characteristics of the radioprotective properties of the monosodium salt of β -aminoethylphosphorothioic acid.

Radiobiologija 4 no.2:259-265 '64.

(MIRA 18:3)

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002064720002-8

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"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720002-8

KULIYEVA, G.; MIRZAZADE, A.; GAUZER, Ye.; ZHEREBCHEVSKAYA, T.

Therapeutic importance of methionine in thyrotoxicosis.
Azerb. med. zhur. 41 no.8:46-50 Ag '64. (MIRA 18:11)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720002-8"

ORUDZHEV, I.M.; ZHREBCHEVSKAYA, T.E.

Endocrine glands in hepatosplenomegalies. Azerb.med.zhur.
no.8:3-7 Ag '59. (MIRA 12:11)
(SPLIEN--DISEASES) (LIVER--DISEASES) (ENDOCRINE GLANDS)

ZHREBCHEVSKAYA, T.E.

Activities of the Kharkov Society of Endocrinologists in 1958.
Probl.endok. i gorm. 5 no.3:120-126 My-Je '59. (MIRA 12:9)

1. Sekretar' Khar'kovskogo obshchestva endokrinologov.
(ENDOCRINOLOGY)

~~KET'YAKOV, I.S., kand.tekhn.nauk; ZHARECHEVSKIY, L.Sh., inzh.; KOGAN, A.B.,
Inzh.~~

Operation of the SM-847 vibration rolling segment mill. Trudy
NIZHNY NOVGOROD No.33:241-247 '64. (MIRA 18:2)

ZHEREBCHEVSKIY, L.Sh. [Zherebchevs'kiy, L.Sh.], inzh.

Automatic control of bucket conveyors in removing silage from
the trench. Mekh.sil'.hosp. 9 no.11:27 N '58. (MIRA 11:12)
(Conveying machinery) (Ensilage)

AGAPOV, N.F., kand. tekhn. nauk; ZHEREBCHEVSKIY, V.I., inzh.; STARTSEVA,
X.V., inzh.

Production and use of bitumen emulsions in Kazakhstan. Avt.
dor. 27 no.8:14-15 Ag '64. (MIRA 17:12)

ZHEREBCHUK, L.K.

Effect of gibberellin on the RNA content in the leaves of
healthy potato plants and in plants affected by mosaic virus.
Dop. AN URSR no. 12:1634-1637 '65.

(MIRA 19:1)

1. Institut mikrobiologii i virusologii AN UkrSSR. Submitted
November 2, 1964.

ZHEREBCHUK, L.K.

Effect of gibberellin and other biologically active substances on potato viruses. Mikrobiol. zhur. 25 no.5:8-13
'63. (MIRA 16:12)

1. Institut mikrobiologii AN UkrSSR

ZHIREBCHUK, L.K.

Effect of gibberellin on the wrinkled potato mosaic viruses.
Mikrobiol. zhur. 25 no.1:3-8 '63. (MIRA 17:5)

1. Institut mikrobiologii AN UkrSSR.

MOSKOVETS, S.N. [Moskovets', S.M.]; ZHEREBCHUK, L.K.

Characteristics of nitrogen metabolism in healthy potato plants
and those infected with mosaic virus under the effect of gibberellin.
Mikrobiol. zhur. 27 no.6:67-72 '65. (MIRA 19:1)

1. Institut mikrobiologii i virusologii AN UkrSSR. Submitted
September 22, 1964.

ZHEREBCHUK, L.K.

Characteristics of carbohydrate metabolism in healthy potato plants and in potato plants with rugose mosaic under the influence of gibberellin. Mikrobiol. zhur. 27 no.5:45-49 '65.
(MIRA 18:10)

1. Institut mikrobiologii i virusologii AN UkrSSR.

USSR / Farm Animals. The Honeybee.

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7408

Author : Zherebenko, V.

Inst : Not given

Title : The Utilization of Bees for the Pollination
of Plants

Orig Pub : S. kh. Sibiri, 1958, No 2, 76-77

Abstract : At the kolkhoz of the Krasnoyarskiy kray, 9
c/ha of seeds were gathered from a field of
buckwheat which adjoined the apiary, 7 c/ha
were gathered from a field which was situated
at a distance of 1 km from the apiary, and
4.8 c/ha were gathered from the most distant
field. At another kolkhoz, 250 c/ha of cucum-
bers were harvested from a field which was
situated next to the apiary, but from a field

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USSR / Farm Animals. The Honeybee.

Q

Abs Jour : Ref Zhur " Biologiya, No 2, 1959, No. 7408

which was located 2 km away from the apiary,
only 90 - 100 c/ha were harvested.

Card 2/2

ZHEREBENKO, V. M.

Krasnoyarsk territory - bee culture

Drive for larger honey-collection, Pchelovodstvo 29 No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

ZHAROV, Viktor Leont'yevich; ZHEREBENKOY, Yuriy Frolovich;
KADIL'NIKOV, Yuriy Viktorovich; KUZNETSOV, Vitaliy
Prokof'yevich; KUDIKINA, Ye., red.

[Tur fish and tuna fisheries in the Atlantic Ocean]
Tuntsy i ikh promysel v Atlanticheskem okeane. Kaliningrad,
Kalininogradskoe knizhnoe izd-vo, 1964. 181 p.

(MIRA 18:9)

1. Atlanticheskiy nauchno-issledovatel'skiy institut rybnogo
khozyaystva i okeanografii (for all except Kudikina).

ZHEREBETSKIY, A.I., agronom

Weeding potato fields. Zashch. rast. ot vred. i bol. 8 no.7:18-
19 Jl '63. (MIRA 16:9)

1. Sovkhoz 42 Mikhaylovskogo rayona, Primorskogo kraya.

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002064720002-8

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CIA-RDP86-00513R002064720002-8"

KOTOVENKO, I. (Zhdanov); ZHEREBILO, N. (Zhdanov)

It was decided, we are carrying it out. Voen. znan. 41 no.8;25 Ag '65.
(MIRA '18;7)

ZHEREBILO, N.

Data were received clearly. Voen. znan. 42 no.2;20 P '66.
(MIRA 19:1)

1. Zherebilo, A. I.
2. SSSR (600)
4. Geese
7. My experience in raising goslings.
Ptitsevodstvo No. 5, 1952
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

ZHEREBILOV, Vladimir Alekseyevich; ROSTOVSKIY, S.N., otv. red ; GARMSEN,
O.M., red. Izd-va; YAZLOVSKAYA, E.Sh., tekhn. red.

[The laboring class of Malaya] Rabochii klass Malaii. Moskva,
Izd-vo vostochnoi lit-ry, 1962. 238 p. (MIRA 15:10)
(Malaya--Labor and laboring classes)

ZHEREBIKOV V. A.

CHZHU CHZHI-KHE [Chu Chih-he]; AZOVSKIY, I.P. [translator]; GALIMOV,
A.A. [translator]; ZHEREBIKOV, V.A. [translator]; AFANAS'IEVSKIY,
Ye.A., red.; KLIMENKO, S.V., tekhn.red.

[Burma] Birma. Moskva, Izd-vo inostr.lit-ry, 1958. 228 p.
Translated from the Chinese. (MIRA 13:2)
(Burma)

Zherebilo, Valentin Mikhaylovich

Nedelimyye fondy kolkhozov [Undivided funds of collective farms]
Moskva, Izd-vo "Znaniye", 1958.

31 p. tables.

At head of title: Vsesoyuznoye Obshchestvo po Rasprostraneniyu
Politicheskikh i Nauchnykh Znaniy.

ZHEMBILOV, Valentin Mikhaylovich, kand. ekon. nauk; PALAMIEVA, T. P., red.;
BIRLOV, A.P., tekhn. red.

[Undivided funds of collective farms] Nedelizyme fondy kolkhozov.
Moskva, Izd-vo "Znanie," 1958. 31 p. (Vsesoiuznoe obshchestvo po
rasprostraneniuu politicheskikh i nauchnykh znanii. Ser.3, no.22).
(Collective farms—Finance) (MIRA 11:10)

ZHEREBILOV, V.M., kandidat ekonomicheskikh nauk.

Publication of this textbook is justified ("Organization of socialist agriculture" by T.L. Basiuk. Reviewed by V.M.Zherebilo). Nauka i pered.op.v sel'khoz. 7 no.6:68-70 Je '57. (MIRA 10:7) (Agriculture, Cooperative) (Basiuk, T.L.)

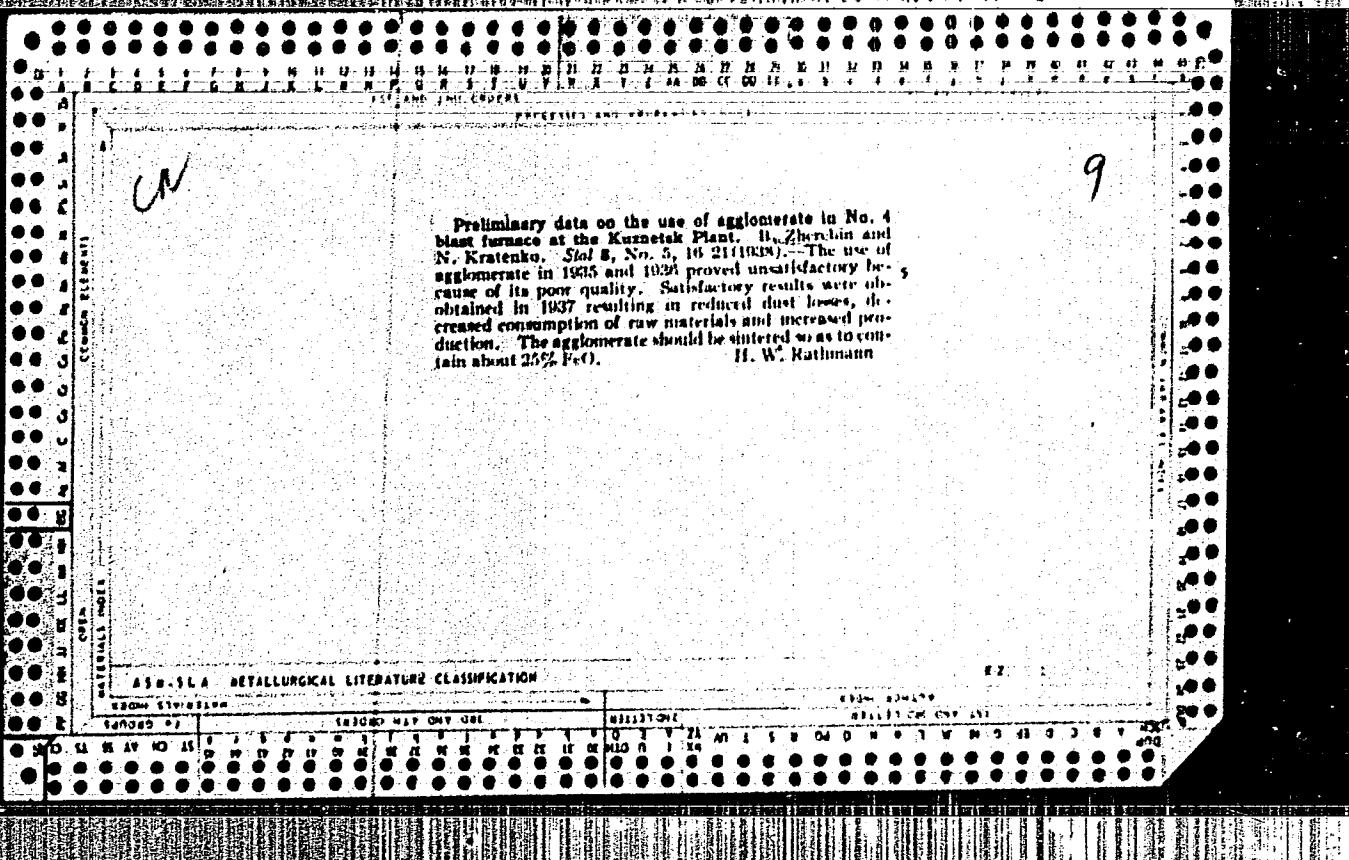
ZHERKIN, A.S.; POKROVSKIY, N.S.

New techniques in stamping iron armature cores. Avt. i trakt.prom.
no.8:(Insert) Ag '55. (MIRA 8:11)
(Armatures)

ZHEREBIN, B.

Contributions of metallurgists of Western Siberia. NTO 3 no.3:45
Mr '61.
(MIRA 14:3)

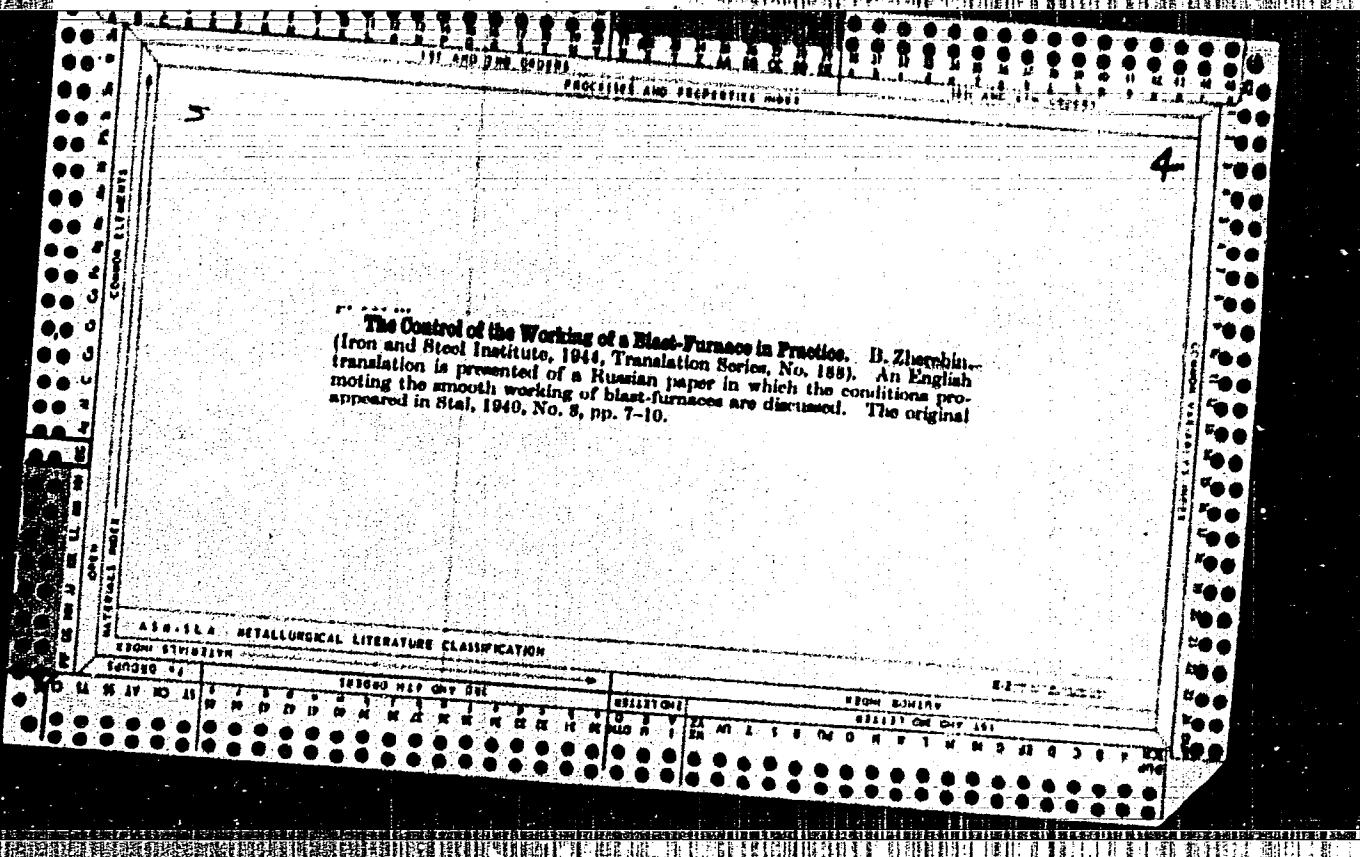
1. Direktor Kuznetskogo metallurgicheskogo kombinata predsedatel'
Kemerovskogo oblastnogo pravleniya Nauchno-tehnicheskogo obshchestva
chernoy metallurgii.
(Kuznetsk Basin--Steelworks--Technological innovations)



The Control of the Working of a Blast Furnace in Practice.
 A. Zherbin... (Stal, 1940, No. 8, pp. 7-10). (In Russian). In a general discussion the author considers the effects of blast volume, pressure and temperature on the working of a blast furnace. Conditions under which blast pressure must be raised or lowered are summarised. The proper blast temperature is determined mainly by the physical characteristic of the burden; factors necessitating temperature changes are considered. Causes of scaffolding are described, and methods of eliminating these are suggested. The author also deals with the sequence adopted for the charging of coke and ore at the Kuznetskiy works under normal working conditions, and also the sequences used to obtain different distributions of the constituents with the object of curing abnormal conditions in the furnace. In conclusion, the method of adjusting composition of the charge on the basis of blast-furnace dust elimination is dealt with.

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CIA-RDP86-00513R002064720002-8"



VOSKOBONYIKOV, V.G., prof., doktor tekhn. nauk; ZHEREBIN, B.N., prof.;
LIKHODIYEVSKIY, V.A., inzh.; MISHIN, P.P., inzh.; RAYEV, Yu.O., inzh.

Dynamics and control of coke burning processes in the tuyere zone
of a blast furnace. Stal' 24 no.11:975-980 N '64.

(MIRA 18:1)

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APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720002-8"

BARDIN, I.P.; BORISOV, A.F.; BELAN, R.V.; YERMOLAYEV, G.I.; VAYSBERG, L.B.;
ZHEREBIN, B.N.; BORODULIN, A.I.; SHAROV, G.V.; DOMNITSKIY, I.F.; CHUSOV, F.P.
SOROKO, L.N.; KLIMASENKO, L.S.; PAVLOVSKIY, S.I.; ZIL'BERSHTEYN, M.B.;
LYULENKO, I.S.; NIKULINSKIY, I.D.; BRAGINSKIY, I.A.; SALOV, Ye.M.;
TROSHIN, N.F.; PETRIKEYEV, V.I.; ARGUNOV, M.I.; DUL'NEV, F.S.; BIDULYA, L.N.
GAYNANOV, S.A.; FROLOV, N.P.; VINICHENKO, V.S.; KOGAN, Ye.A.

G.E.Kazarnovskii; obituary. Stal' 15 no.8:757 Ag'55. (MIRA 8:11)
(Kazarnovskii, Grigorii Efimovich, 1887-1955)

ZHEREBIN, B.N.

On the problem of the horizontal distribution of ores in blast furnace
tops. Stal' 15 no.9:782-787 S'55.
(MLRA 8:12)

1. Kuznetskiy metallurgicheskiy kombinat
(Blast furnaces)

ZHEREBIN, B.N., inzhener; KAZARNOVSKIY, G.Ye., inzhener [deceased];
KREPYSHOV, N.V., inzhener; MINKIN, V.M., inzhener.

Performance of the Kuznetsk Combine blast furnaces under
increased gas pressure. Stal' 15 no.12:1063-1073 D '55.

(MLRA 9:2)

1.Kuznetskiy metallurgicheskiy kombinat.
(Stalinsk--Blast furnaces)

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CIA-RDP86-00513R002064720002-8"

AUTHOR ZHEREBIN B.N. PA - 3054
TITLE Path of Glory. (Slawnyy put!- Russian)
PERIODICAL Metallurg 1957, Vol 2, Nr 4, pp 2 - 4 (USSR)
Received: 5/1957 Reviewed: 7/1957
ABSTRACT In 1930, the Communist Party presented the Soviet people with the task of creating a second base of coal and metallurgical plants in the East, namely the Uralo-Kuzbass. In 1932, the first Martin furnace started operating, in November 1932 the cogging mill, and in December 1932 the rail and joist rolling mill. In 1931, the construction of the ore mines was started in Berg-Schoria, and in 1932 the first ore trains were obtained. During the past twenty-five years, the Kuznetsk Combinat developed into a large-scale metallurgical enterprise with several ore mines, two agglomerating plants, and a series of basic and auxiliary enterprises. The area produces: coke, coke-chemical products, pig iron, steel, rolling-mill products, rails together with assembling materials, fireproof materials, etc. Many millions of tons were produced for the country. Particularly during the World War II, the combinat furnished the armed forces with metal. The steady growth of the production was a result of the improvement in the technological-economical performance characteristics of the main metallurgical aggregates. This improvement

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was particularly marked in the postwar years, when many plants were modernized, automatized, and when modern technology and methods were introduced. The effective volume of the furnaces was increased, their hot-blast stoves were automatized, hot blast with stable and increased moisture content came into operation, and all this, together with the increased gas pressure at the throat, led to an intensification of the performance of the blast furnaces. During the past two or three years, the preparation of the raw materials was considerably improved. The production of agglomerates admixed with melt and of melts of pig irons with low manganese content have improved the technological-economical performance characteristics of the blast furnaces. As result of finest grinding of coal, it was possible to make use of kinds of coal that hitherto had been regarded as useless for coking. In the division for Martin furnaces, improvements were made in the construction of furnaces by enlarging the hearth and by concluding full automatization, and also in the field of heat economy. All furnaces were furnished with magnesite-chromite vaults, and the ports were furnished with injection air-pressure atomizers. This made it possible to increase the heat intensity,

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and to reduce the duration of heat. In the electric steel melting plant, the life span of the furnace lining was increased, the production of alloyed fine steels introduced, and finally the heating of the ingot scoop with current commenced.

Particular success was achieved in the cogging mill. A series of improvements resulted in the increase also in the performance of the other rolling mills. The combine also took the initiative in rolling with regard to minus tolerances. By improving the methods of transport, several divisions succeeded in reducing the loading personnel to almost one third, and this in spite of the constantly increasing quantity of materials to be handled. Much was done also by enlarging the ore base of the combine. The local ore share was almost tripled. The production of ore and of agglomerates was strongly furthered by more economical methods, like ingot mining, drilling deep mines, etc. Work of inventors and the system of suggestions existing in the area resulted in 28,000 suggestions which in turn saved 217,000,000 rubles during the past 25 years. After World War II it was possible by realizing 1000 suggestions to lay off 2000 workers

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and to make the heavy work of 5000 other workers easier. The personnel of the combine forms the basis of its success. The political and technological training of the personnel is one of the most important results of the work done. The technological education in several schools and courses was very active. The Socialist Competition, in which the combine won the first place for several times, is a proof of the success. The city of Stalinsk grew together with the Kuznetsk Combine. Already before the war, it had become a large well-established city. After the war, an area of 400,000 m² was provided for residential purposes, in 1956 an additional 125 m². Hospitals, theatres, schools etc. were built. The combine still shows the following disadvantages: insufficient ore supplies, lacking agglomerates, necessity of constructing two additional coke-battery furnaces, installations for repair must be enlarged, cogging mill is milling to slowly. The directors of the combine expect aid from the supreme authorities concerned. (One reproduction).

ASSOCIATION: Kuznets Metallurgical Combine.

PRESENTED BY:-

SUBMITTED: -

AVAILABLE: Library of Congress.

CARD 4/4

AUTHORS:

Zherebin, B.N., Engineer, Dembovetskiy, V.P., Candidate
of Technical Sciences, Dotsent and Minkin, V.M.,
nikulinskiy, I.D., Engineers

SOV/133-58-7-1/27

TITLE:

Smelting of Pig Iron with a Low Content of Manganese and
Phosphorus (vyplavka chuguna s nizkim soderzhaniyem
margantsa i fosfora)

PERIODICAL:

'Stal', 1958, № 7, pp 578 - 585 (USSR)

ABSTRACT:

Experimental smelting of low-manganese, low-phosphorus pig iron carried out on the Kuznetsk Metallurgical Combine during 1953-1955 is described. The manganese content was decreased in stages from 1.7 - 1.8% to 1.1 - 0.9% (1953-1954), then to 0.75 - 0.85% (1954) and to 0.45 - 0.55% (1955). Phosphorus content was decreased from 0.25 - 0.27% to 0.14 - 0.16%. The production of the latter type of iron is being continued. On the basis of analysis of operating and performance data of three blast furnaces (Table 1 and 2 and Figures 1 - 9) the following conclusions are drawn: the best operational results were obtained when basic slag and Mazul'skiy manganese ores were completely excluded from the burden. The possibility of production from low-manganese iron of rail quality carbon and alloy steels without an increase in the ferromanganese

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Smelting of Pig Iron with a Low Content of Manganese and Phosphorus

additions and without any decrease in quality was confirmed in practice. The existing views on the role of manganese in the blast furnace process (in respect of slag formation, physico-chemical properties of slag and pig iron, desulphurisation processes) should be reconsidered in the light of the results obtained during the present investigation. The use in the blast furnace burden of such poor, difficult-to-reduce substitute as an open-hearth slag can be advantageous only during the smelting of very rich ores with a high-sulphur coke (under modern conditions, it leads only to an increase in slag volume (Figure 8), an increase in the coke rate and a decrease in the output). Complete elimination of manganese containing additions leads to a 5.4% increase in the output of blast furnaces, a 5.6% decrease in the coke rate and a decrease in costs of 10.16 roubles per ton/iron. The main factors decreasing costs of production are: the elimination of manganese ore from the burden and the decrease in the coke

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Smelting of Pig Iron with a Low Content of Manganese and Phosphorus

rate. A comparatively small increase in the basicity of slag (from 0.98-0.99 to 1.05-1.06) secured the production of pig without increased sulphur content. The technology of production of low-manganese pig which is in operation on the Kuznetsk Combine should be spread to works in the southern and central parts of the USSR.

There are 2 tables and 9 figures, and 4 Soviet references.

ASSOCIATIONS: Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Combine) and Sibirskiy metallurgicheskiy institut (Sibirskiy Metallurgical Institute)

1. Iron--Production
2. Manganese--Elimination
3. Phosphorus--Elimination
4. Blast furnaces--Operation

Card 3/3

SOV/133-59-1-3/23

AUTHORS: Zherebin, B.N. and Krepyshev, N.V.

TITLE: On the Problem of a Rational Design of a Blast-furnace
Hearth (K voprosu o ratsional'noy konstruktsii gorna)

PERIODICAL: Stal', 1959, Nr 1, pp 10 - 14 (USSR)

ABSTRACT: The durability of hearth bottoms of blast furnaces built in 1932-1934 and after their repairs in 1936-1944 (Figure 1) is briefly discussed. During repairs in 1945-1957 thermocouples were placed in the hearth bottoms which indicated that in 4-5 months after blowing in a considerable wear of the bottoms took place (Figure 2). Similar indications were obtained from radioactive indicators incorporated into the furnace hearth in 1953 (Figure 3). During capital repairs in 1953-1954 under-hearth cooling was not used but instead additional L-shaped coolers (Figure 4) were included as a continuation of stave coolers (proposed by I.P. Bardin) which considerably improved the removal of heat from the bottom. During rebuilding of Nr 1 furnace in 1955, carbon blocks were used in the metal receiving part of the hearth and plate coolers were prolonged up to the foundations. However, this did not improve the non-uniformity of the heat penetration into the hearth (Figure 5). In 1956 during

Card1/3

On the Problem of a Rational Design of a Blast-furnace Hearth
SOV/133-59-1-3/23

reconstruction of Nr 2 furnace carbon blocks were used in the hearth and bosh. The bottom of the hearth was air-cooled (Figure 6). Carbon blocks in the bottom were placed onto carburised chamotte bricks. The furnace was blown in November, 1956. Its main operating data are given in Table 1 and the operation of underhearth cooling in Table 2. Temperature changes in the hearth and in the foundation and their comparison with similar changes in other furnaces is shown in Table 3. The total amount of heat which is being removed by the underhearth cooling amounts to 17.5 cal/min.m^2 while the heat being removed by the stave coolers amounts to 42.6 cal (1958 measurements). Changes in the hearth and hearth foundations are given in Table 3. At present, the degree of hearth erosion (based on radioactive indicators) is approximately the same as on other furnaces without underhearth cooling (Figures 7 and 8). A low temperature increase of the air used for underhearth cooling indicates that it is possible either to decrease the amount of air used for cooling at the same hearth height or at the same amount of air to decrease the height. It is concluded that the use of underhearth

Card2/3

SOV/133-59-1-3/23

On the Problem of a Rational Design of a Blast-furnace Hearth
air cooling leads to a substantial decrease and levelling
out of the temperature at the bottom part of the hearth and
foundations of the blast furnace. The use of carburised
chamotte bricks does not increase the durability of the
hearth bottom. There are 8 figures, 3 tables and
6 Soviet references.

ASSOCIATION: Kuznetskiy metallurgicheskiy kombinat (Kuznetsk
Metallurgical Combine)

Card 3/3

ZHEREBIN, B.N.; DEMBOVETSKIY, V.P.; KUDOYAROV, M.S.; MISHIN, P.P.

Studying blast furnace operations with the blowing of coke
oven gas into the hearth. Stal' 25 no.4:293-298 Ap '65.
(MIRA 18:11)

1. Kuznetskiy metallurgicheskiy kombinat i Sibirskiy
metallurgicheskiy institut.

ZHEREBIN, B.N.

Potentialities for the mechanization of production processes.
Mekh. i avtom proizv. 18 no.11:39-42 N '64 (MIRA 18:2)

1. Direktor Kuznetsovskogo metallurgicheskogo kombinata.

ZHEREBIN, B.N., prof.; KHROMOV, V.A., kand. tekhn. nauk;
MISHIN, P.P., inzh.; YEFIMENKO, G.M., inzh.; OBUCHAROV, V.M.,
inzh.; RAYEV, Yu.O., inzh.

Automatic control of the distribution of blast to blast furnace
tuyeres at the Kuznetsk Metallurgical Combine. Stal' 23 [i.e. 24]
no. 4:292-296 Ap '64. (MIRA 17:8)

ZHEREBIN, B.N.; MISHIN, P.P.; KUDOYAROV, M.S.; SUKHENKO, S.I.; RASKIN, V.Z.;
OSTROUKHOV, M.Ya.; RAKOV, V.V.

Experimental blast furnace smelting using coke from large-capacity
coke ovens. Koks i khim. no.2:23-29 '64. (MIRA 174)

1. Kuznetskiy metallurgicheskiy kombinat (for Raskin).
2. Chelyabinskiy institut stali (for Ostroukhov). 3. Kuznetskiy
filial Vostochnogo uglekhimicheskogo instituta (for Rakov).

ZHEREBIN, B.N.

Thirtieth anniversary of the Kuznetsk Metallurgical Combine. Stal'
22 no.4:289-292 Ap '62. (MIRA 15:5)

1. Direktor Kuznetskogo metallurgicheskogo kombinata.
(Novokuznetsk--Iron and steel plants)

ZHEREBIN, B.N., Geroj Sotsialisticheskogo Truda

The Siberian giant is 30 years old. Metallurg 7 no.4:l-3 Ap
'62. (MIRA 15:3)

1. Direktor Kuznetskogo metallurgicheskogo kombinata.
(Novokuznetsk—Metallurgical plants)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720002-8

ZHEREBIN, B.N., KUDOYAROV, M.S., SLINCHENKO, Ye.V., POLYANSKIY, D.S.

Operation of blast furnaces with a capacity of 1719 m³. Stal'
22 no.3:210-215 Mr '62. (MIRA 15:3)
(Blast furnaces)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720002-8"

ZHEREBIN, B.N.; DEMBOVETSKIY, V.P.; MINKIN, V.M.; NIKULINSKIY, I.D.;
Prinimali uchastiye: OBSHAROV, V.M., inzh.; RAYEV, Yu.O., inzh.;
ZHIGULEV, P.T., inzh.; SUCHKOV, I.A., inzh.; DEREZKIN, B.S.,
inzh.; NEKRASOV, V.M., inzh.; ZHUKOVICH, A.I., inzh.

Use of coke-oven gas in blast furnaces. Stal' 21 no.8:673-679
Ag '61. (MIRA 14:9)

1. Kuznetskiy metallurgicheskiy kombinat i Sibirskiy me-tallurgicheskiy institut.
(Blast furnaces—Equipment and supplies)

ZHEREBIN, Boris Nikoleevich; MINKIN, Valentin Mikhaylovich; MATUSEVICH,
Leonid Yakovlevich; GUR'YANOV, Vasiliy Grigor'yevich; MARKHASIN,
Yuriy Abramovich; SHTYREV, Dmitriy Alekseyevich; BALLA, G.P., red.;
SOKOLOVSKIY, V.A., red.; DOKUKINA, Ye.V., red. izd-va; DOBUZHIN-
SKAYA, L.V., tekhn. red.

[Expansion of blast furnace production at the Kuznets Metal-
lurgical Combine] Razvitiye domennogo proizvodstva na Kuznetskom
metallurgicheskem kombinat'e. Pod obshchei red. B.N.Zherebina.
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi
metallurgii, 1961. 361 p. (MIRA 14:6)
(Stalinsk--Blast furnaces)

ZHEREBOV, D.K., inzh.

Development of the working parts of single-bucket excavators before
the middle of the 19th century (to be continued). Stroi.i dor.mash.
6 no.4:17-20 Ap '61. (MIRA 14:3)
(Excavating machinery)

ZHEREBIN, B.N., prof.

Redesigning blast furnace hearths and hearth bottoms. Metallurg
9 no.2:5-8 F '64. (MIRA 17:3)

1. Direktor Kuznetskogo metallurgicheskogo kombinata.

Zherebin, F. I.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Kostenko, M.P.	"An Electrodynamic Model	Institute of Automatics and
Latmanizov, M.V.	of a Power System"	Telemechanics, Academy of
Urusov, I.D.		Sciences
Ivanov, V.I.		
Ryzhov, P.I.		
Sokolov, T.N.		
Semenov, V.V.		
<u>Zherebin, F.I.</u>		

SO: W-30604, 7 July 1954

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CIA-RDP86-00513R002064720002-8

ZHERGIN, Mikhail Isaevich

1963

1964

RAILROADS

DECEASED

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720002-8"

ZHERBIN, M.M., kand.tekhn.nauk

Some problems in determining the economy factors of using metal
head frames. Ugol' Ukr. 4 no.3:19-21 Mr '60. (MIRA 13:6)

1. Ukrainskiy NIIproyekt.
(Mine hoisting)

ZHERBIN, M.M., kand.tekhn.nauk; PRISEDSKIY, G.V., inzh.

New equipment for lignite open-pit mines in the German Democratic Republic. Ugol' Ukr. 4 no.7:39-41 J1 '60. (MIRA 13:8)
(Germany, Mast--Strip mining) (Lignite)

ALPEROV, A.A.; ARTEMKIN, A.A.; ASHKENAZI, Ye.A.; VINOGRADOV, G.P.; GALEYEV,
A.U.; GRIGOR'YEV, A.N.; D'YACHENKO, P.Ye.; ZALIT, N.N.; ZAKHAROV,
P.M.; ZOBNIK, N.P.; IVANOV, I.I.; IL'IN, I.P.; KMETIK, P.I.; KUDRYA-
SHOV, A.T.; LAPSHIN, F.A.; MOLYARCHUK, V.S.; PERTSOVSKIY, L.M.;
POGODIN, A.M.; RUDOV, M.L.; SAVIN, K.D.; SIMONOV, K.S.; SITKOVSKIY,
I.P.; SITNIK, M.D.; TETEREV, B.K.; TSETYRKIN, I.Ye.; TSUKANOV, P.P.;
SHADIKYAN, V.S.; ADELJUNG, N.N., retsenzent; AFANAS'YEV, Ye.V., retsen-
zent; VIASOV, V.I., retsenzent; VOROB'YEV, I.Ye., retsenzent; VORO-
NOV, N.M., retsenzent; GRITCHENKO, V.A., retsenzent; ZHEREBIN, M.N.,
retsenzent; IVLIYEV, I.V., retsenzent; KAPORTSEV, N.V., retsenzent;
KOCHUROV, P.M., retsenzent; KRIVORUCHKO, N.Z., retsenzent; KUCHKO,
A.P., retsenzent; LOBAHOV, V.V., retsenzent; MOROZOV, A.S., retsen-
zent; ORLOV, S.P., retsenzent; PAVLUSHKOV, E.D., retsenzent; POPOV,
A.N., retsenzent; PROKOF'YEV, P.F., retsenzent; RAKOV, V.A., retsen-
zent; SINEGUBOV, N.I., retsenzent; TERENIN, D.F., retsenzent; TIKHO-
MIROV, I.G., retsenzent; URRAN, I.V., retsenzent; FILALKOVSKIY, I.A.,
retsenzent; CHEPYZHES, B.F., retsenzent; SHEBYAKIN, O.S., retsenzent;
SHECHERBAKOV, P.D., retsenzent; GARNIK, V.A., redaktor; LOMAGIN, N.A.,
redaktor; MORDVINKIN, N.A., redaktor; NAUMOV, A.N., redaktor; POBE-
DIN, V.F., redaktor; RYAZANTSEV, B.S., redaktor; TVERSKOY, K.N.,
redaktor; CHEREVATYY, N.S., redaktor; ARSHINOV, I.M., redaktor;
BABILYAN, V.B., redaktor; BERNGARD, K.A., redaktor; VERSHINSKIY, S.V.,
redaktor; GAMBURG, Ye.Yu., redaktor; DERRIBAS, A.T., redaktor;
DOMEROVSKIY, K.I., redaktor; KORNEYEV, A.I., redaktor; MIKHAYEV, A.P.,
redaktor

(Continued on next card)

ALFEROV, A.A. ---- (continued) Card 2.

MOSKVIN, G.N., redaktor; RUBINSHTEYN, S.A., redaktor; TSYPIN, G.S.,
redaktor; CHERNIYAVSKIY, V.Ya., redaktor; CHERNYSHEV, V.I., redaktor;
CHERNYSHEV, M.A., redaktor; SHADUR, L.A., redaktor; SHISHKIN, K.A.,
redaktor

[Railroad handbook] Spravochnaia knizhka zheleznodorozhnika. Izd.
3-e, ispr. i dop. Pod obshchei red. V.A. Garnyka. Moskva, Gos.
transp.zhel-dor. izd-vo, 1956. 1103 p. (MLRA 9:10)

1. Nauchno-tekhническое общество железнодорожного транспорта.
(Railroads)

ZHEREBIN, M. YE.

PHASE I BOOK EXPLOITATION

15

SOW/6100

Akademija nauk SSSR. Institut tochnoy mehaniki i vychislitel'noy
tekhniki.

Trudy (Academy of Sciences of the USSR, Institute of Precision
Mechanics and Computer Technology. Transactions) no. 2.
Moscow, 1961. 447 p. 1000 copies printed. Contributors not
mentioned.

PURPOSE: This collection of articles is intended for scientific and
technical personnel concerned with machine translation and computer
technology.

COVERAGE: This collection of articles of the Institute of Precision
Mechanics and Computer Technology, Academy of Sciences USSR, is
the second in a series concerned with machine translation and
mathematical linguistics. The collection contains reports written
by members of the Machine-Translation Group of the Institute as
well as reports by researchers from other organizations. The
articles deal with various problems in machine translation, such
as the possibility of an intermediate language, relationships
between various languages, systems of recording, structure of

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Academy of Sciences (Cont.)

SCV/6100

algorithms, methods of independent analysis of a number of languages (Chinese, German, English, Russian, Armenian, Swedish, Tartar, etc.), independent synthesis of the Russian language, some problems of binary Japanese-Russian and Chinese-Russian translation, theoretical translation problems, and problems associated with automatic recognition of speech elements and the introduction of written texts. No personalities are mentioned. There are 11 references: 2 Soviet and 9 English.

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1. Preface
2. Belokrinitskaya, S. S., G. A. Volchek, M. B. Terinov, A. A. Zvenov, T. M. Nikolayeva, and G. A. Tarasova. One of the Possible Approaches to the Building-Up of a Vocabulary for an Intermediate Language.
3. Zholkovskiy, A. K., N. N. Leont'yeva, and Yu. S. Martem'yannov. "On the Fundamental Use of Matching in Machine Translation."

Card 2/6

17

Academy of Sciences (Cont.)

4. Ivanov, Ye.Ye. Machine Translation and the Establishing of Relationships Between Linguistic Systems 80V/6100 47
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6. Mel'chuk, I. A. On Standard Operators for an Algorithm for Automatic Analysis of a Russian Scientific Text 85
7. Voronin, V. A. System of Independent Configurational Analysis of a Chinese Text in Machine Translation 135
8. Zherebin, M. Ye. Structure and Character of a Glossary for an Independent Analysis of a Chinese Text 173
9. Zherebin, M. Ye. On the Solution of a Conversational Harmony in the Independent Analysis of a Chinese Text 180
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"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720002-8

FIDELEV, A.S., doktor tekhn.nauk; ZHERBIN, M.M., kand.tekhn.nauk; PRYADKO,
N.A., kand.tekhn.nauk; NECHITAYLO, A.A., inzh.

Diesel trolley truck haulage. Ugol' Ukr. 7 no.6:38-40 Je '63.
(MIRA 16:8)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720002-8"

15(2)

AUTHORS:

Zherebin, S. I., Kabanov, N. P.

SOV/72-59-3-12/19

TITLE:

Practical Use of Tar for the Carburetion of Generator Gas
in Glass Melting Furnaces (Prakticheskoye primeneniye smoly
dlya karbyuratsii generatornogo gaza v steklovarennnykh pechakh)

PERIODICAL: Steklo i keramika, 1959, Nr 3, pp 38-41 (USSR)

ABSTRACT:

In 1954 the authors of the present paper with other collaborators of the Gor'kovskiy zavod (Gor'kiy Factory) recommended to concentrate the generator gas by products of tar pyrolysis. The purpose was to improve the quality of generator gas, to save on fuel and to stabilize thermal conditions. Bitumen is a waste product of peat gasification and is not suitable for chemical processing. The scheme of the tar introduction may be seen from figure 1. Pre-heated tar is by means of a pump conveyed to the gas generators through water-cooled mechanical pulverizers (Fig 2). In the generators it is mixed with the gas thus increasing its heating coefficient. Control of the pulverizers is done from the working place of the glass melter (Fig 3). Tar is heated in the tank (Fig 4) and pumped on by means of a gear pump of the RZ-3 type.

Card 1/2

Practical Use of Tar for the Combustion of
Generator Gas in Glass Melting Furnaces

SOV/72-59-3-12/19

Equipping and operating costs of the device are low. The device was installed in 1955 for the first time and was later on improved, as is accurately described. In the case of tar shortage, it can be replaced by fuel oil. There are 4 figures.

ASSOCIATION: Gor'kovskiy stekol'nyy zavod (Gor'kiy Glass Factory)

Card 2/2

ZHERZIN, S.I.; KARANOV, N.P.

Practical use of resin for the carburation of producer gas in
glass furnaces. Stek. i ker. 16 no.38-41 Mr '59.

(NIRA 12:4)

(Glass furnaces) (Gas as fuel)

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CIA-RDP86-00513R002064720002-8"

72-11-2/9

AUTHOR: Zherebin, S.I., General Manager

TITLE: The Maksim Gor'kiy Factory (Zavod imeni Maksima Gor'kogo)

PERIODICAL: Steklo i Keramika, 1957,¹⁴ Mr 11, pp. 4 - 5 (USSR)

ABSTRACT: The factory started production in 1934 and is equipped with Sovietmade machines and aggregates only. The factory is constantly growing: new departments are built, existing departments are transformed, the output is increased and the costs are reduced. The factory started the production of already more than 19 kinds of glass. During the last year the rationalizers and inventors of the factory submitted 822 proposals for improvements, 516 of which were introduced and they saved the factory more than 2 million roubles. The factory trained specialists who are known over a wide area. The youngsters are further trained in courses and evening schools. In the past 20 years a whole town developed around the factory. There are 5 figures.

AVAILABLE: Library of Congress
Card 1/1

GINSBURG, D.B., ZHEREBIN, S.I.

Effective utilization of gas in glass factories. Gaz. prom.
no.3:13-18 Mr '58.
(Glass manufacture) (Gas as fuel)

ZHEREBIN, S. M.

Zherebin, S. M. and Kozlov, B. A. "Reconstruction of the Moscow Danilovsk alabaster plant," Sbornik rabot po mest. stroit. materialam (Upr. Prom-sti stroymaterialov i stroydetalej Mosgorispolkoma, Nauch.-issled. i eksperim. stantsiya), Issue 1, 1948, p. 50-58

SO: U-3264, 10 April 53 (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

ZHEREBIN, V.M.

[Certain problems of machine translation from Chinese] Ne-
kotorye voprosy mashinnogo perevoda s kitaiskogo iazyka.
Moskva, In-t technicheskikh i vychislitel'noi tekhniki
Akad. nauk SSSR, 1962. 88 p. (MIRA 16:3)
(Chinese language—Machine translation)

L 19638-63 EPF(c)/EWP(q)/EWT(m)/BDS AFPTC/ASD Pr-4 JD
ACCESSION NR: AP3007063 8/0056/63/045/003/0464/0468

AUTHORS: Zherebin, Ye. A.; Krylov, A. I.; Polikarpov, V. I.; 69
63
Yuzvuk, N. N.

TITLE: Investigation of the gamma radiation from Cs-140 19

SOURCE: Zh. eksper. i teoret. fiziki, v. 45, no. 3, 1963, 464-468

TOPIC TAGS: Cs-140, gamma radiation, short-lived fragment, spectral line

ABSTRACT: A method for investigating the gamma rays from the short-lived (half-life 66 sec) fragment Cs^{140} is described, along with the gas loop used to supply the Xe^{γ} and Kr^{γ} to the measurement place and to enrich the mixture of the decay product with the investigated fragment product. The Cs^{140} was investigated by a high-speed chemical separation of the cesium. The lines 0.59 ± 0.01 , 0.88 , 1.14 , 1.62 , 1.85 , 2.06 , 2.32 , 2.72 , 3.15 MeV were observed as a result in

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L 19638-63

ACCESSION NR: AP3007063

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the gamma rays. "In conclusion, the authors thank Ye. A. Tamonov and O. V. Chubakov for useful discussions and advice, and also A. N. Draskov, A. G. Dudoladov, Ye. A. Gershman, and A. V. Morozov for directly participating in the experiments." Orig. art. has 6 figures.

ASSOCIATION: None

SUBMITTED: 29Mar63 DATE ACQ: 08Oct63 ENCL: 01

SUB CODE: PH NO REF SOV: 001 OTHER: 002

Card 2/02

ZHEREBIN, Ye.A.; TAMANOV, Ye.A.

Fast neutron spectrometer for transit time. Prib.1 tekhn.eksp.
no.4:40-45 Jl-4g '60. (MIRA 13:8)
(Spectrometer)

PANKRATOV, A.V.; ZHEREBINA, O.G.

Synthesis of chlorodifluoramine. Zhur. neorg. khim. 9 no.8:
231-2032 Ag '64. (MIRA 17:11)

ZHEREBITSKIY, Yu.B. (Nikolayev obl., ul. Frunze, d.111, kv.22)

Acute phlegmonous cholecystitis in an 11-year-old-boy. Vest.
Khir. 91 no.10:99-100 O '63. (MIRA 17:7)

1. Iz khirurgicheskogo otdeleniya (zav. - E.Z. Smolyanskaya)
2-y detskoy bol'nitsy (glavnyy vrach - N.A. Dragomirova)
Nikolayeva UkrSSR.

ZHURBEKIN, G.P.

[Ways of increasing work productivity in the tractor industry
of the U.S.S.R.] Puti povysheniia proizvoditel'nosti truda v
traktorostroenii SSSR. Kiev, Izd-vo Akademii nauk UGSR, 1951.
98 p.

(MLRA 9:3)

(Tractor industry)